

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12948 - L2 Version 2
Chandra X-Ray Center

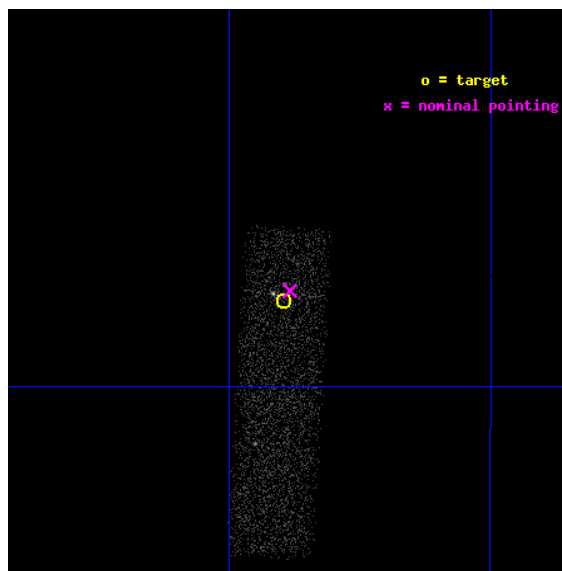
L2 Processing Date : Feb 5 2012

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1 Front

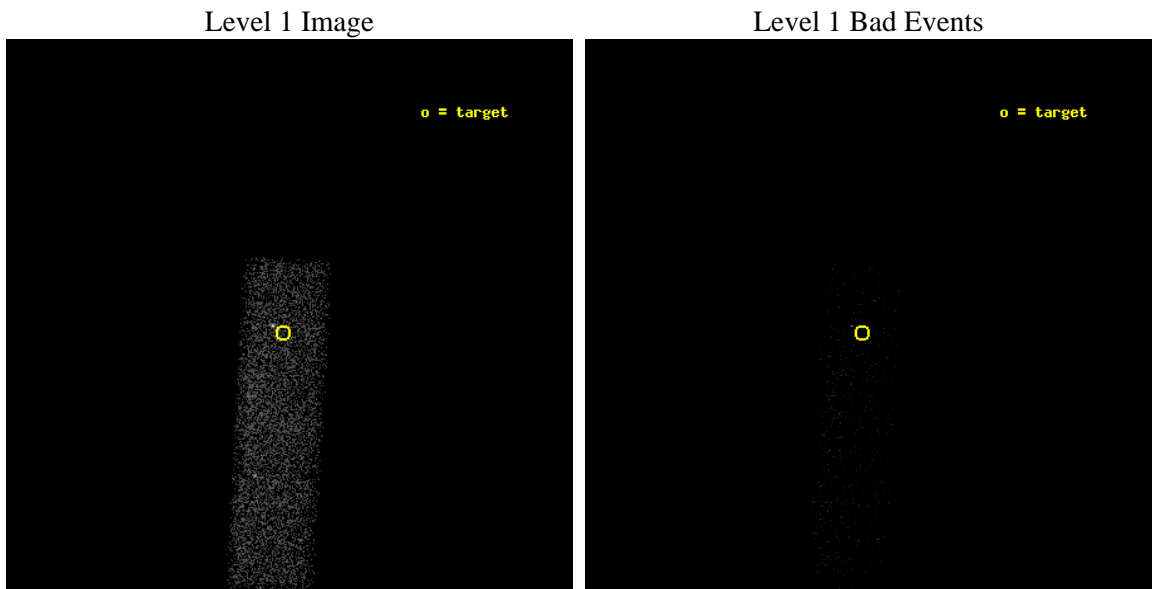
seq_num	900980	Sequence number
obs_id	12948	Observation id
title	Chandra Studies of Unidentified X-ray Sources in the Galactic Bulge	
observer	Dr. Hideyuki Mori	Principal investigator
object	1RXS J182853.8-241746	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	277.224167	Observer's specified target RA [deg]
dec_targ	-24.296111	Observer's specified target Dec [deg]
ra_nom	277.22107873137	Nominal RA [deg]
dec_nom	-24.292170223688	Nominal Dec [deg]
roll_nom	93.350124836727	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4026.333535552	Sum of GTIs [s]
livetime	3829.8616337411	Livetime [s]
ontime7	4026.333535552	Sum of GTIs [s]
l2events	5697	Number of level 2 events



2 OBI

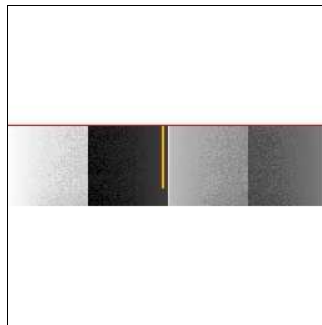
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	4026.333535552	Sum of GTIs [s]
caldsver	4.4.7	 	ontime7	4026.333535552	Sum of GTIs [s]
date	2012-02-05T14:21:22	Date and time of file creation	l1events	10352	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

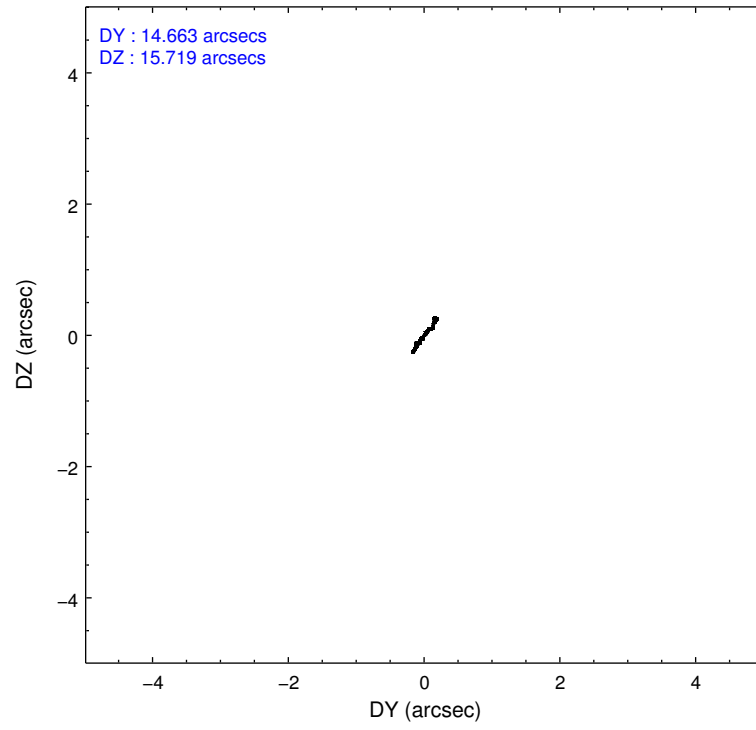
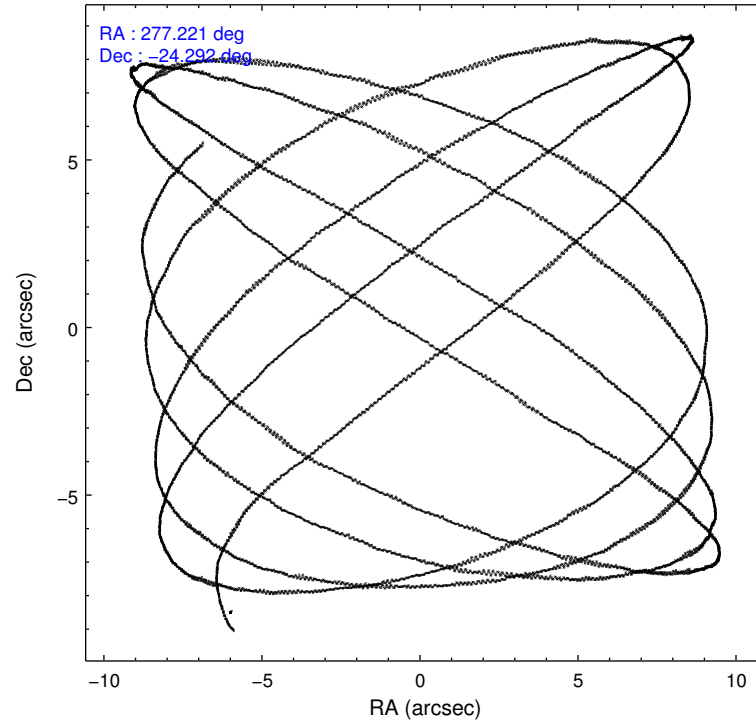
	ccd 7
level 1 events	10352
rejected events	4515
rejected %	43%

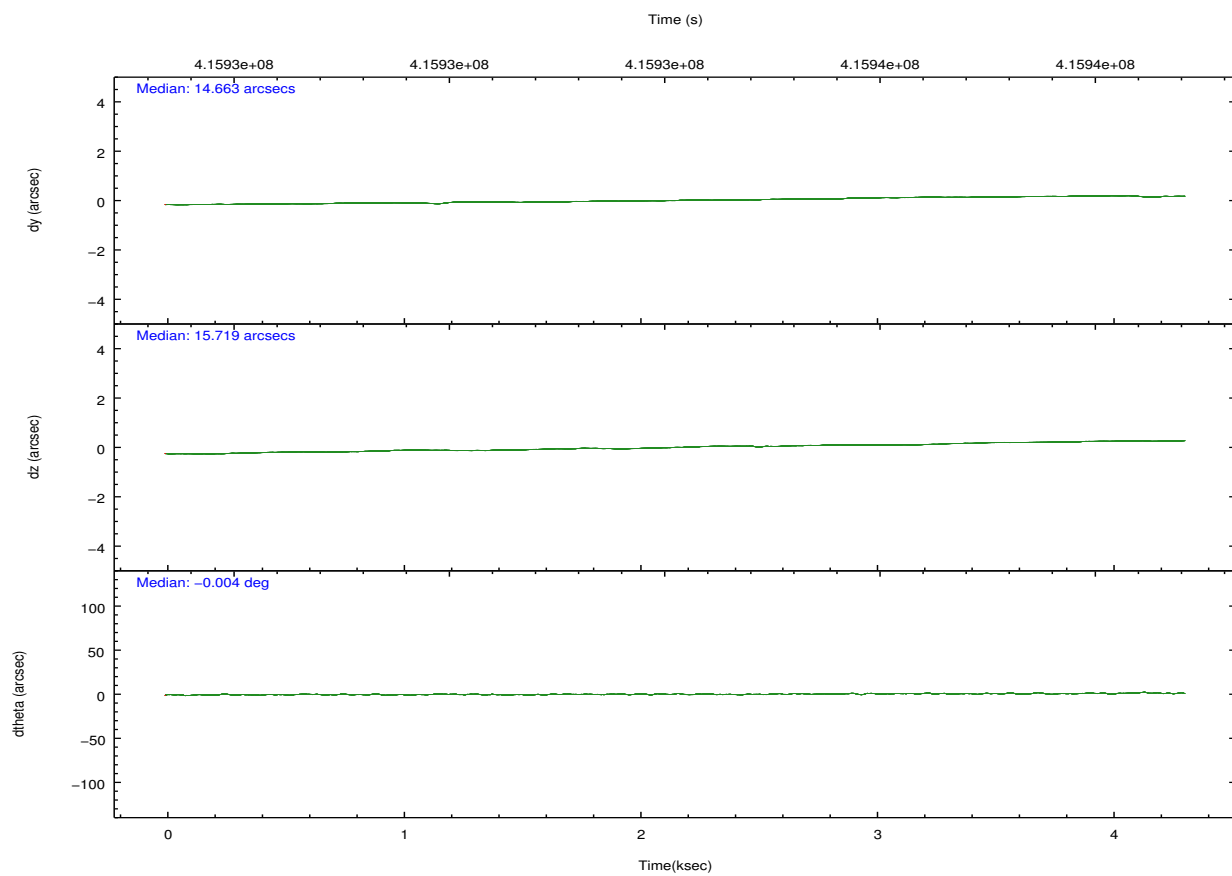
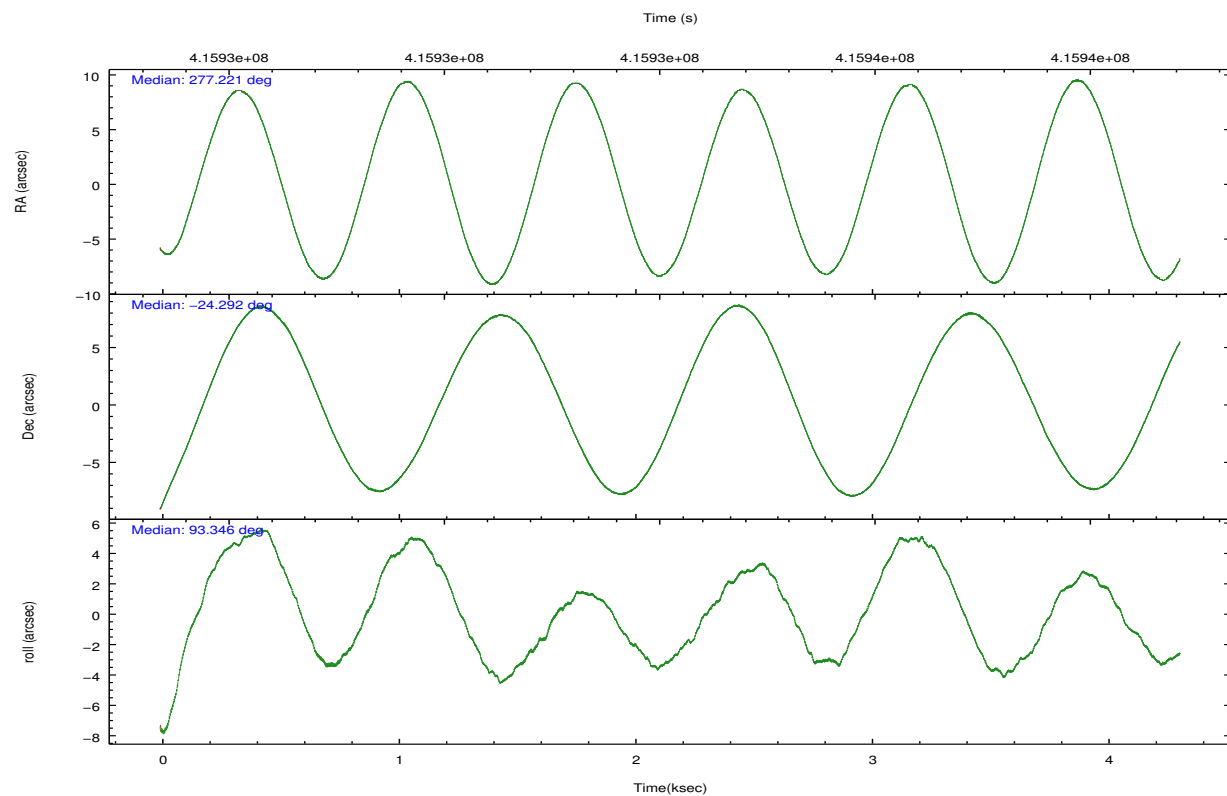
	ccd 7
grade 0 events	785
	7%
grade 1 events	16
	0%
grade 2 events	1242
	11%
grade 3 events	673
	6%
grade 4 events	681
	6%
grade 5 events	984
	9%
grade 6 events	2456
	23%
grade 7 events	3515
	33%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	277.237950	277.2210787313696	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-24.314769	-24.29217022368775	Subarray start row	385	385
[deg] Pointing Roll	93.200454	93.35012483672736	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	415932204.184000	415931584.13017			
Observation start date	2011-03-08T00:42:18	2011-03-08T00:33:04			
[s] Observation end time (MET)	415936204.184000	415936479.01793			
Observation end date	2011-03-08T01:48:58	2011-03-08T01:54:39			
Read mode	TIMED	TIMED			

2.3 Aspect



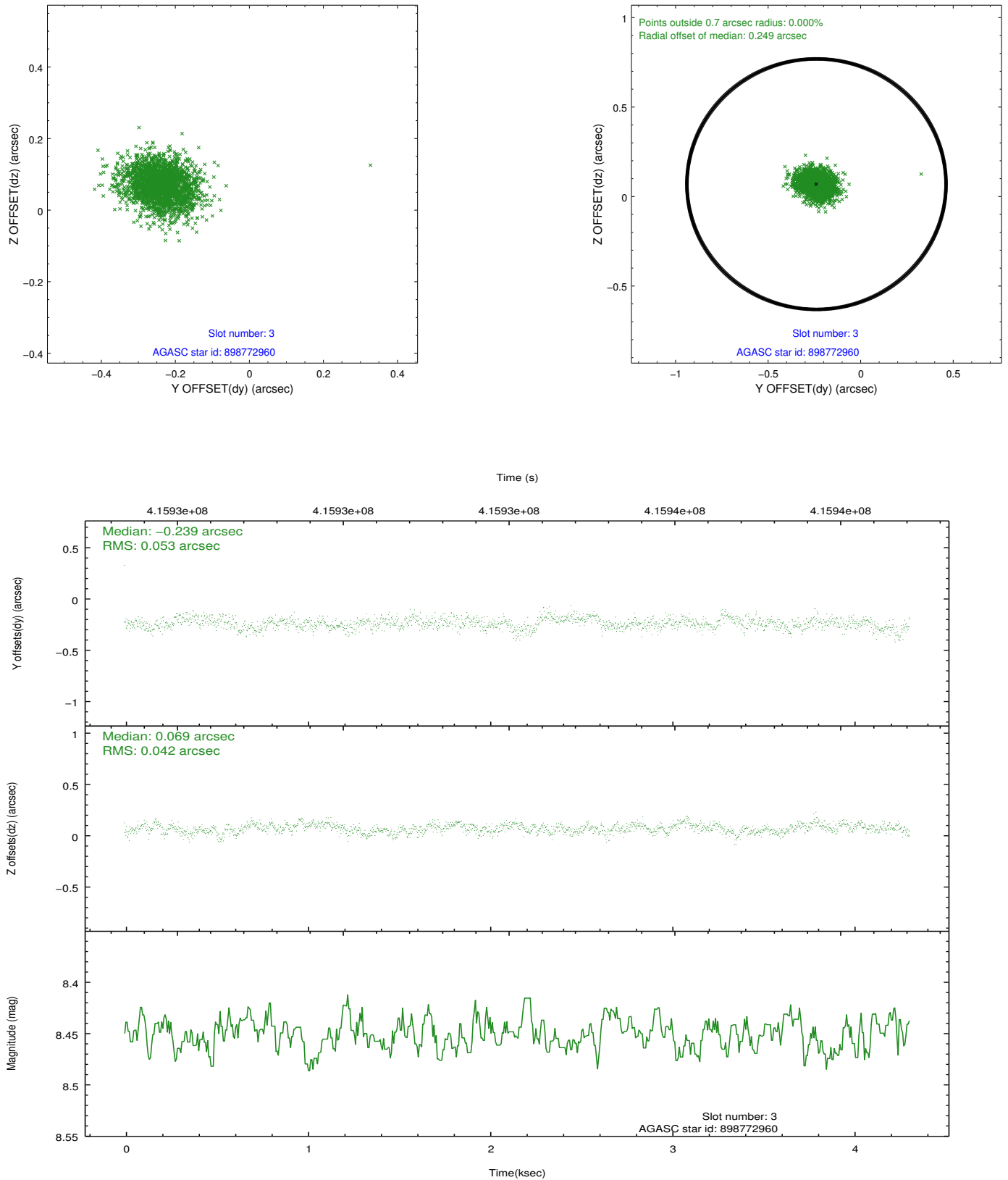


Slot Statistics

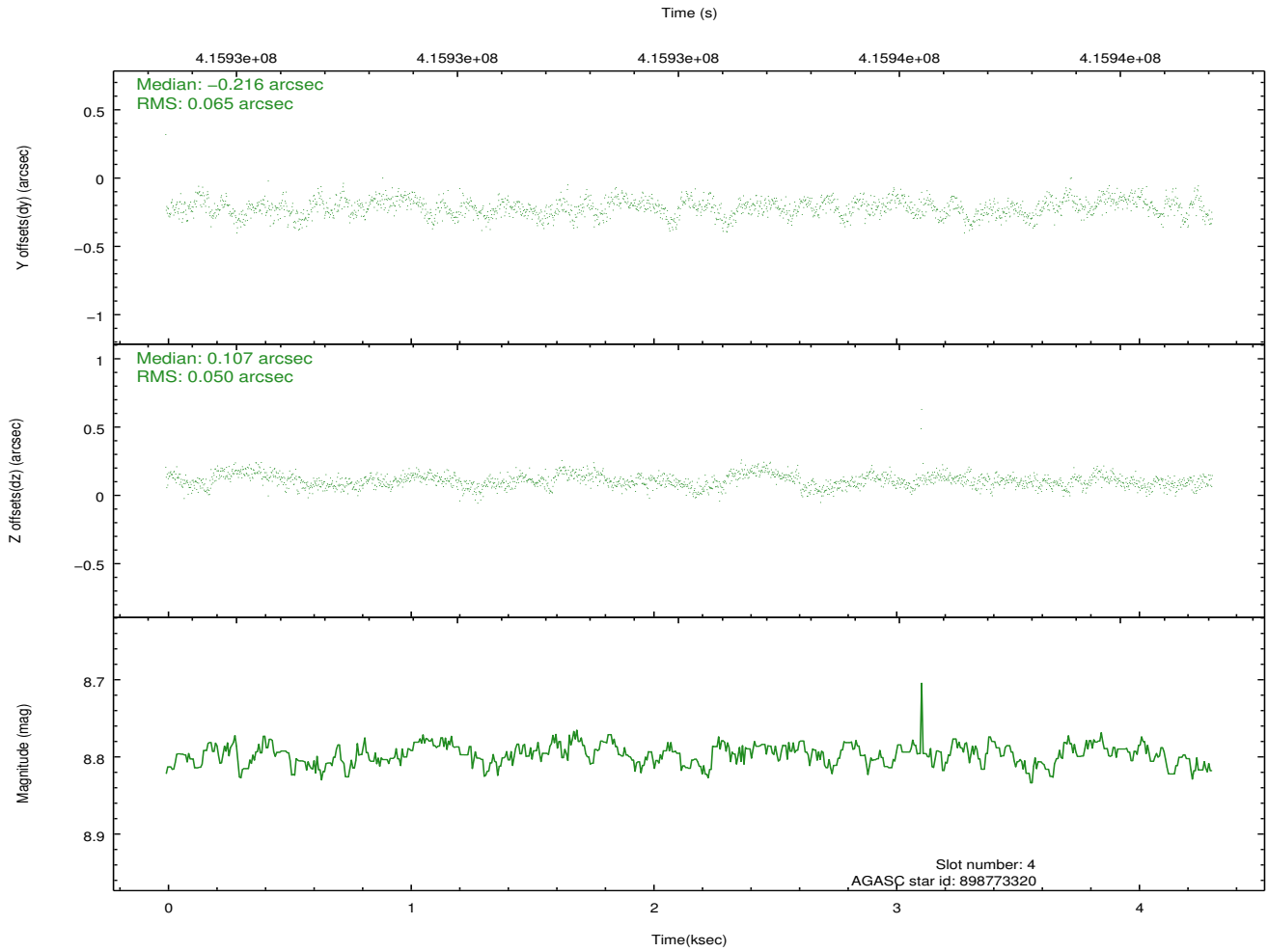
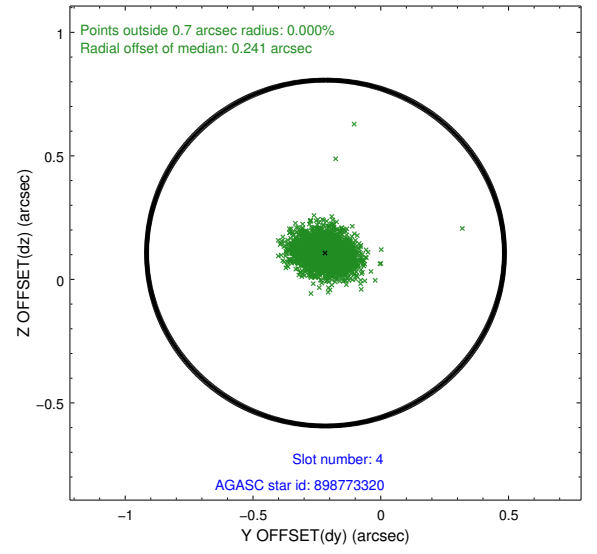
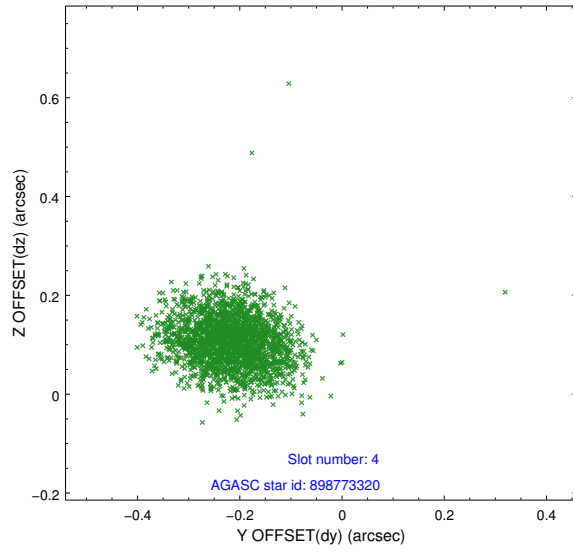
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.94	1052	-0.080	-0.009	0.007	0.012	0.000000	0.000000	-767.71	-1737.13
1	FID	ACIS-S-4	7.03	1052	0.182	0.041	0.006	0.010	0.000000	0.000000	2145.16	169.92
2	FID	ACIS-S-5	7.05	1052	-0.133	-0.024	0.007	0.013	0.000000	0.000000	-1818.77	165.15
3	GUIDE	898772960	8.45	2103	-0.239	0.069	0.070	0.116	277.658586	-23.887765	1455.79	-1467.97
4	GUIDE	898773320	8.80	2103	-0.216	0.107	0.087	0.139	277.627801	-23.763413	1909.36	-1393.68
5	GUIDE	899300320	7.63	2104	0.168	-0.026	0.056	0.091	277.317988	-24.453684	-512.47	-234.66
6	GUIDE	899303080	8.64	2102	0.102	-0.296	0.077	0.125	277.019419	-24.562458	-850.62	763.78
7	GUIDE	899307392	8.98	2102	0.183	0.140	0.102	0.157	278.029638	-24.900381	-2256.33	-2462.75

2.4 Star Slots

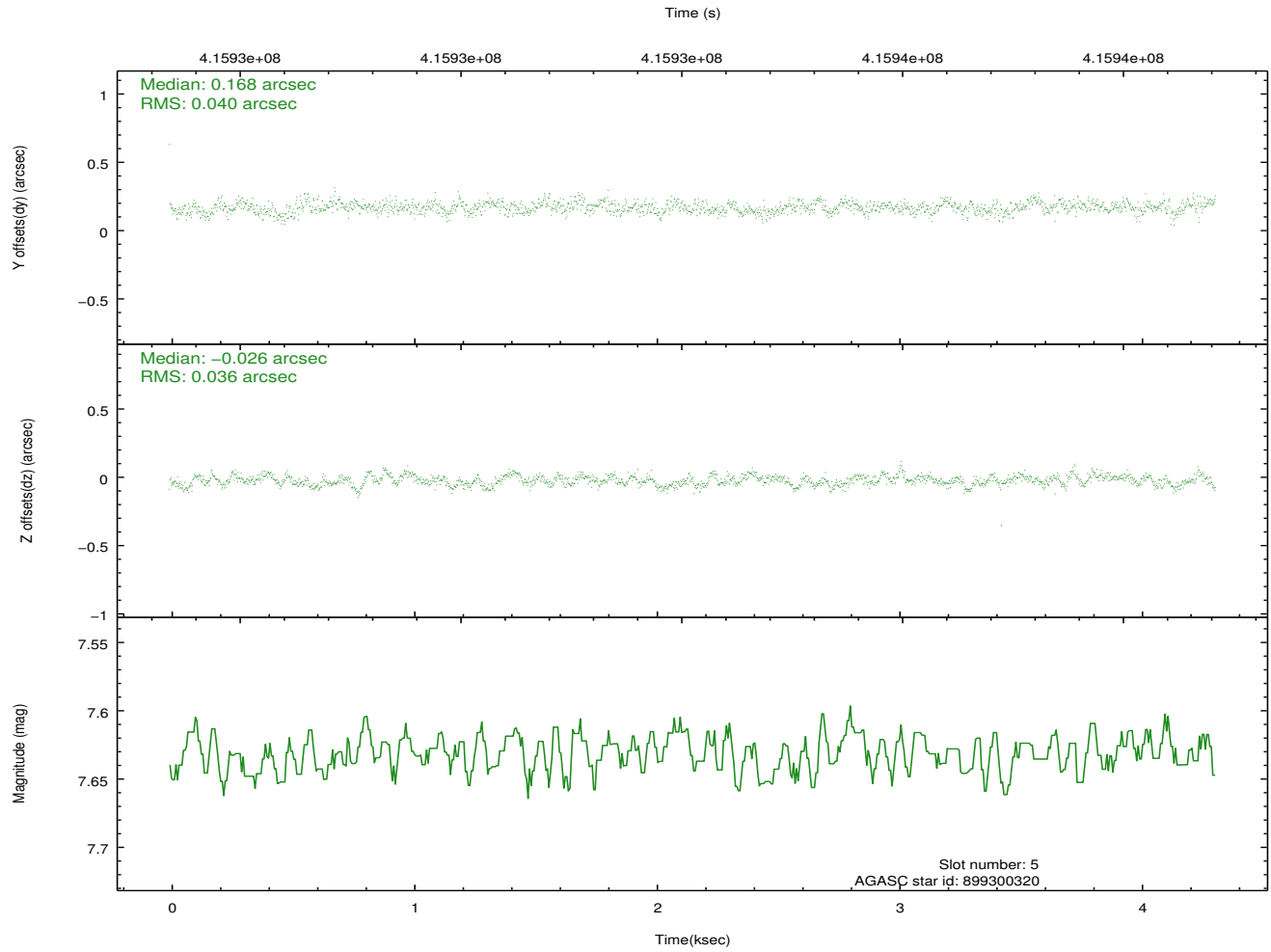
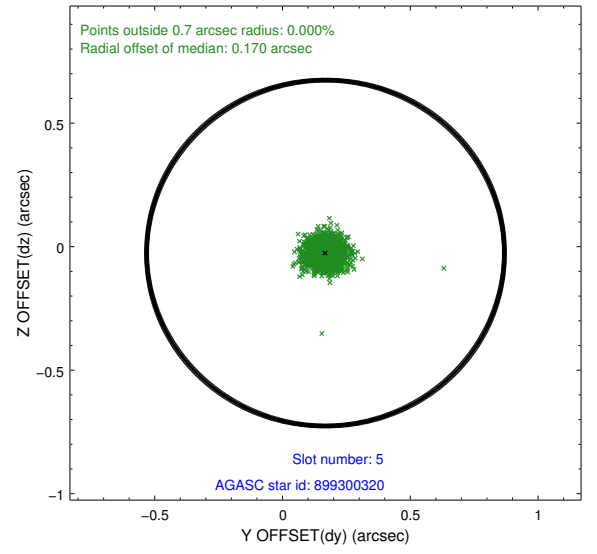
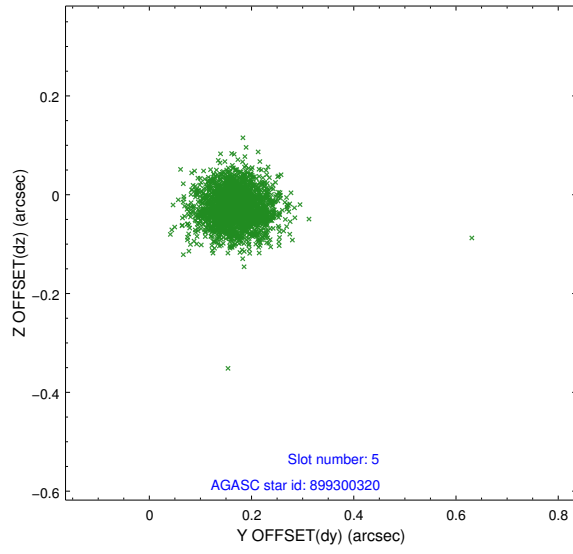
2.4.1 Slot 3



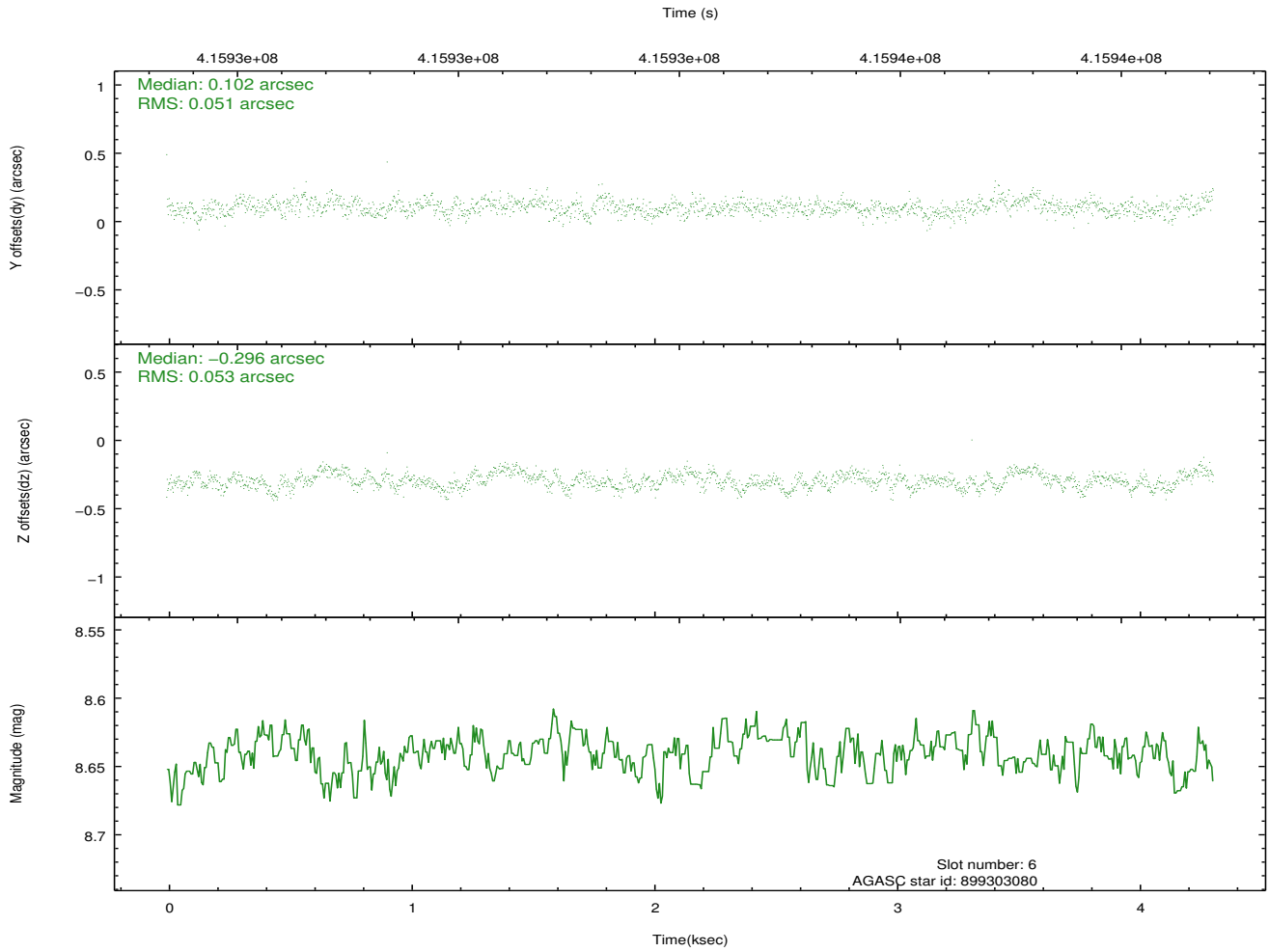
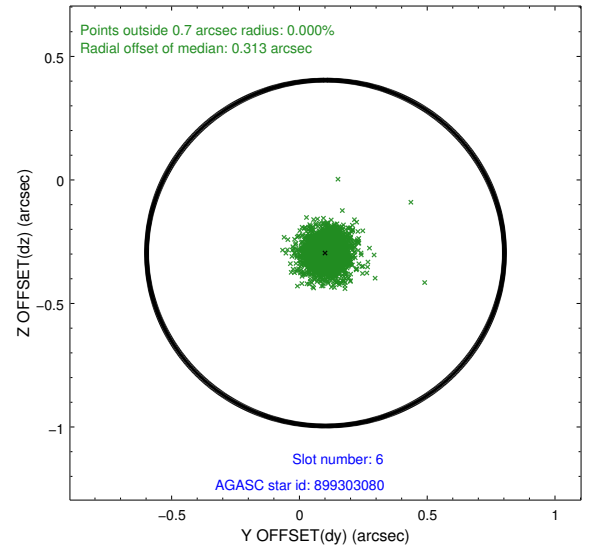
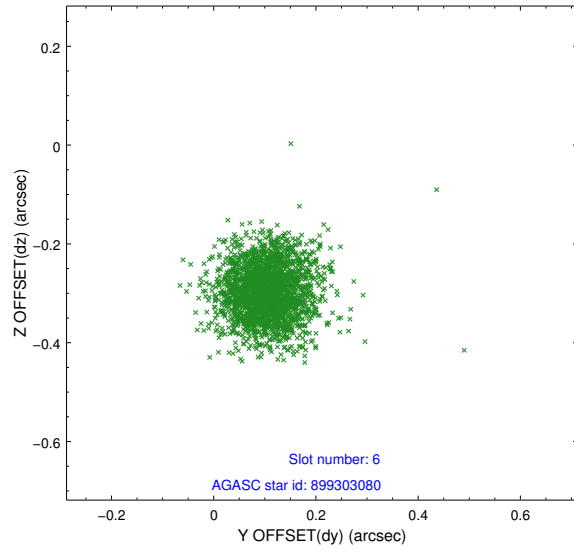
2.4.2 Slot 4



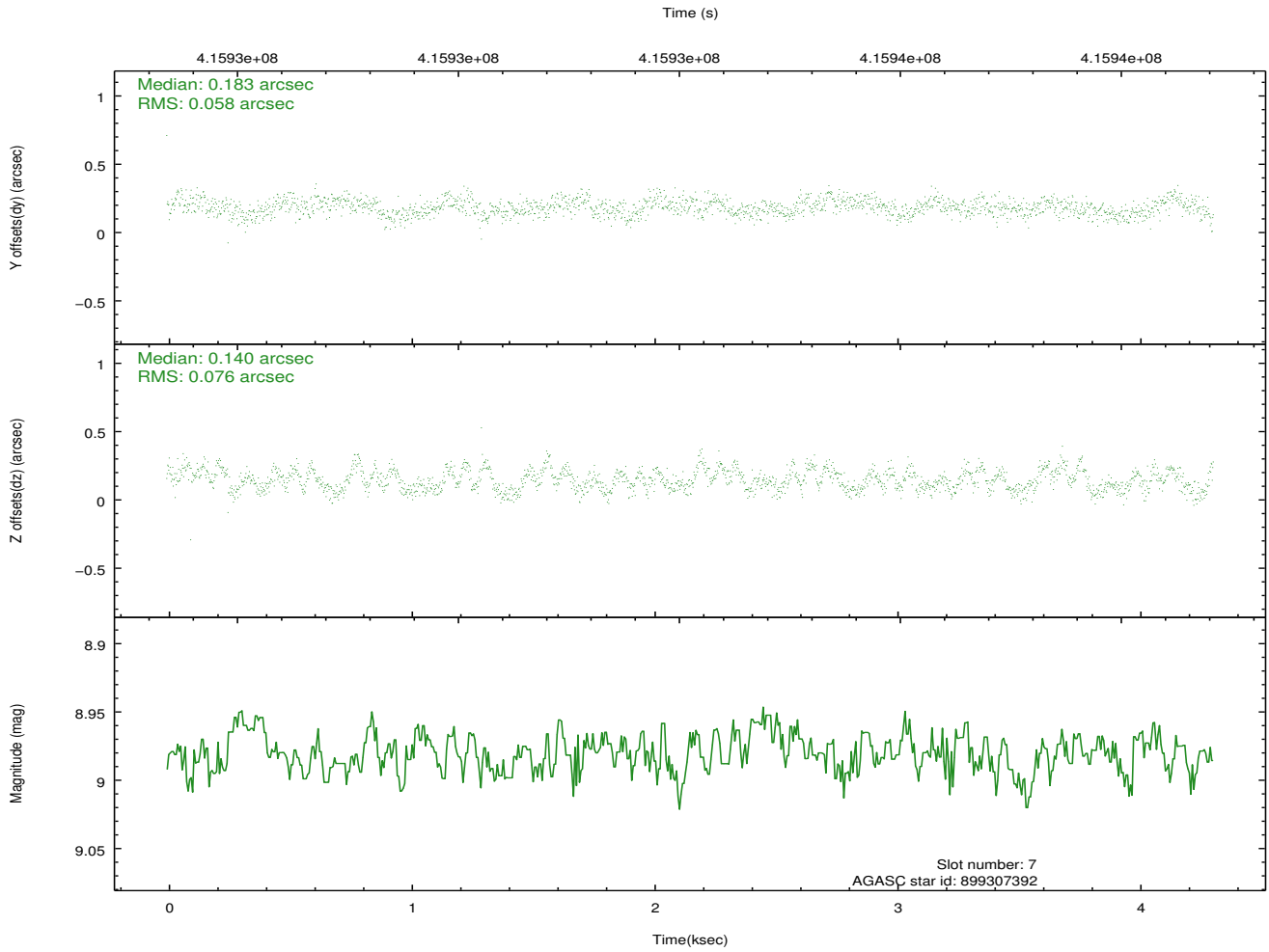
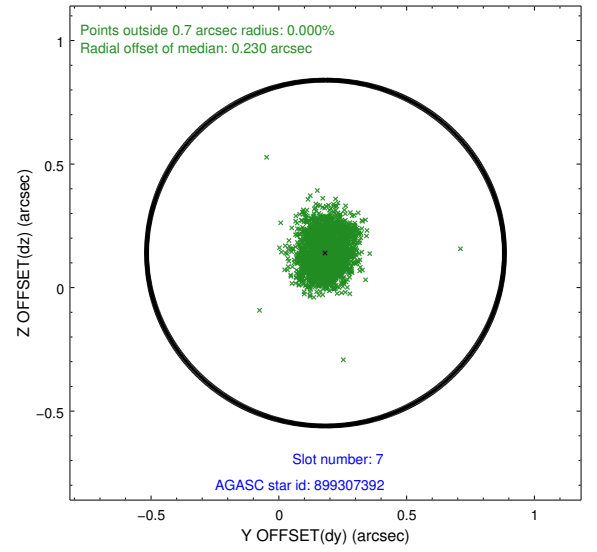
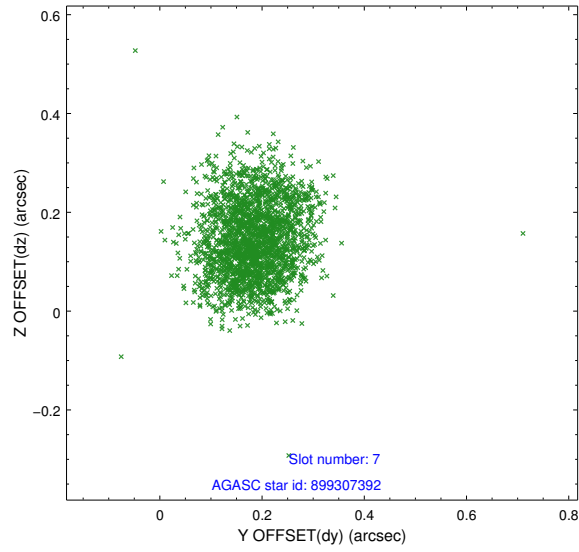
2.4.3 Slot 5



2.4.4 Slot 6

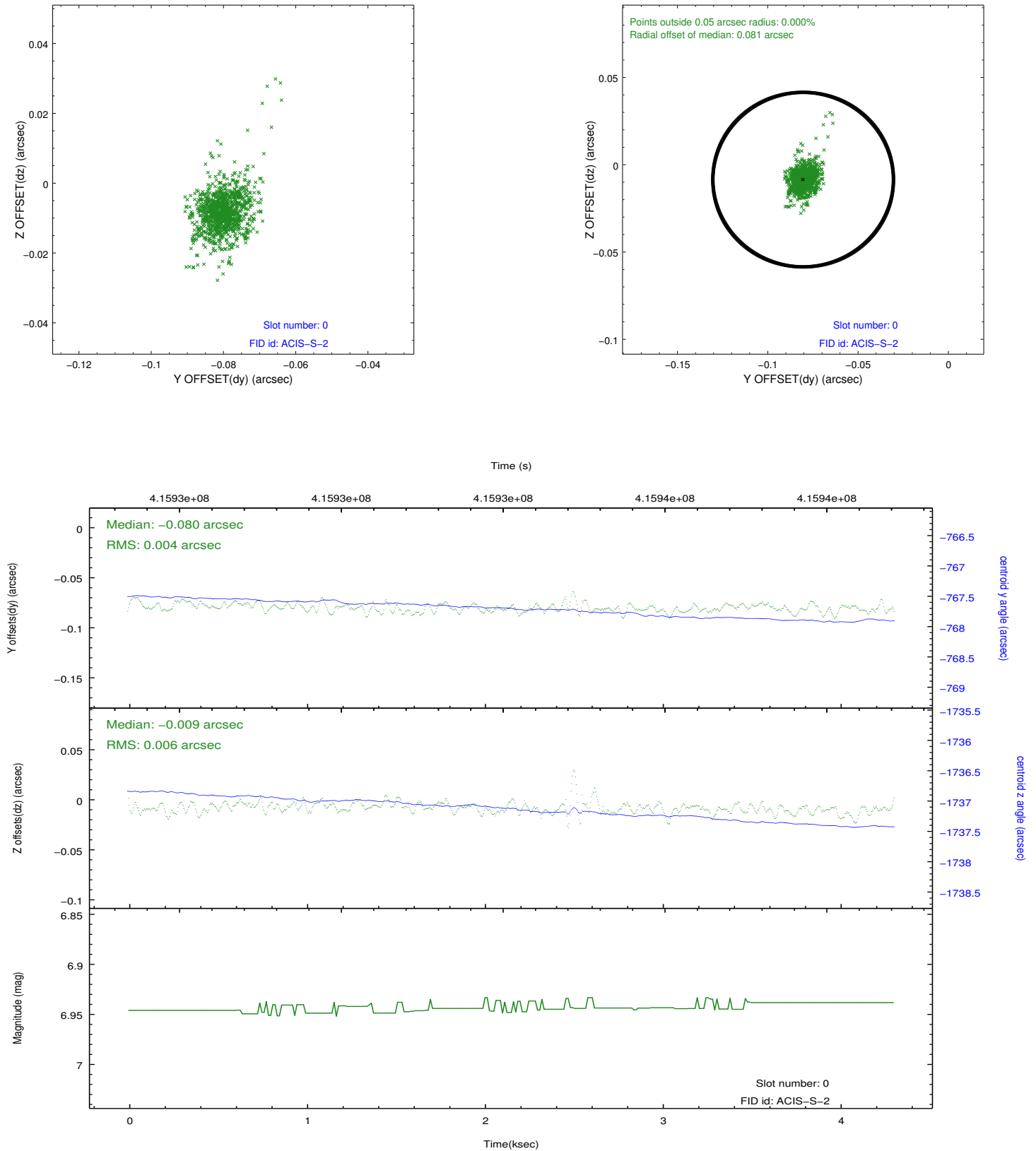


2.4.5 Slot 7

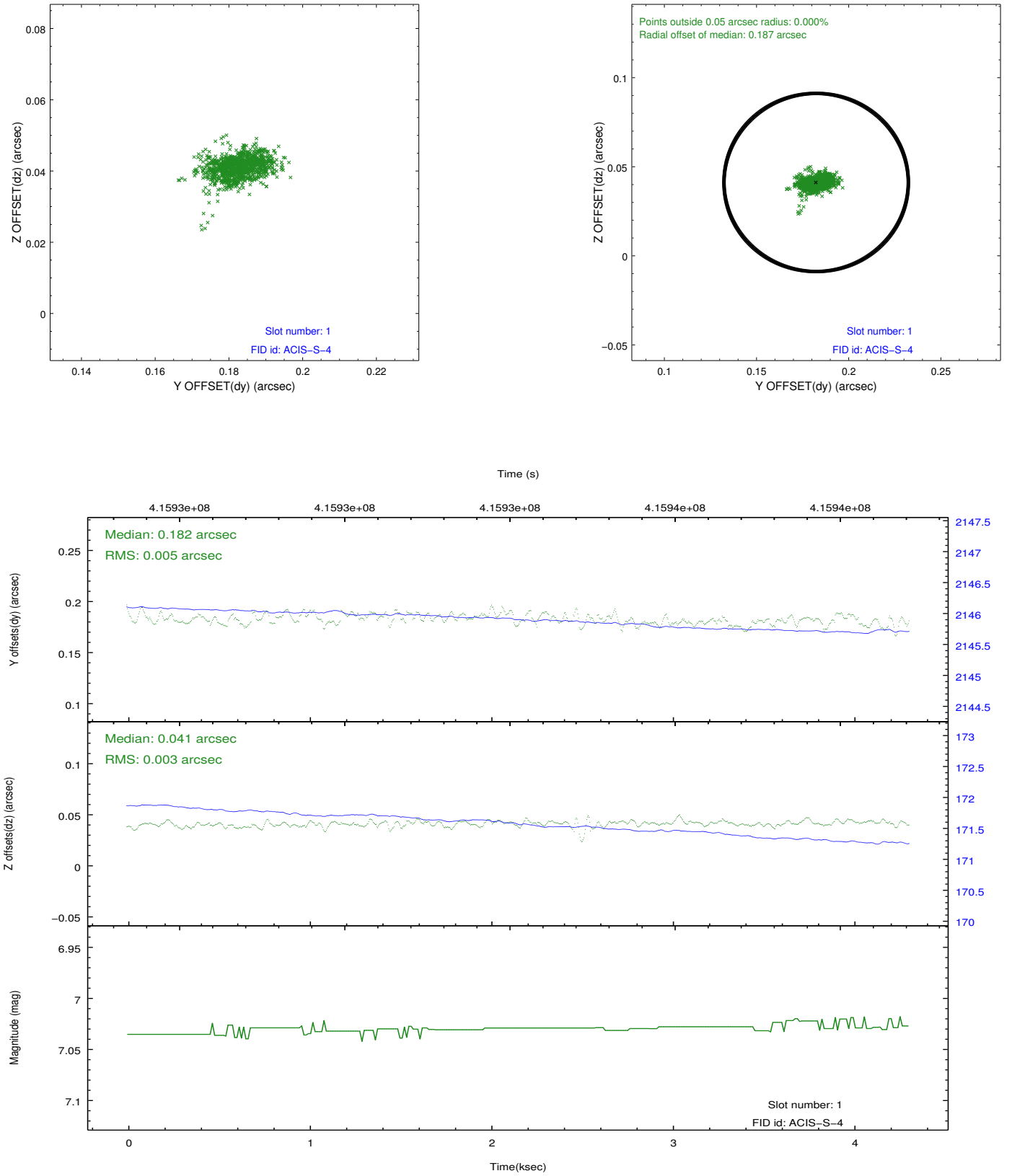


2.5 FID Slots

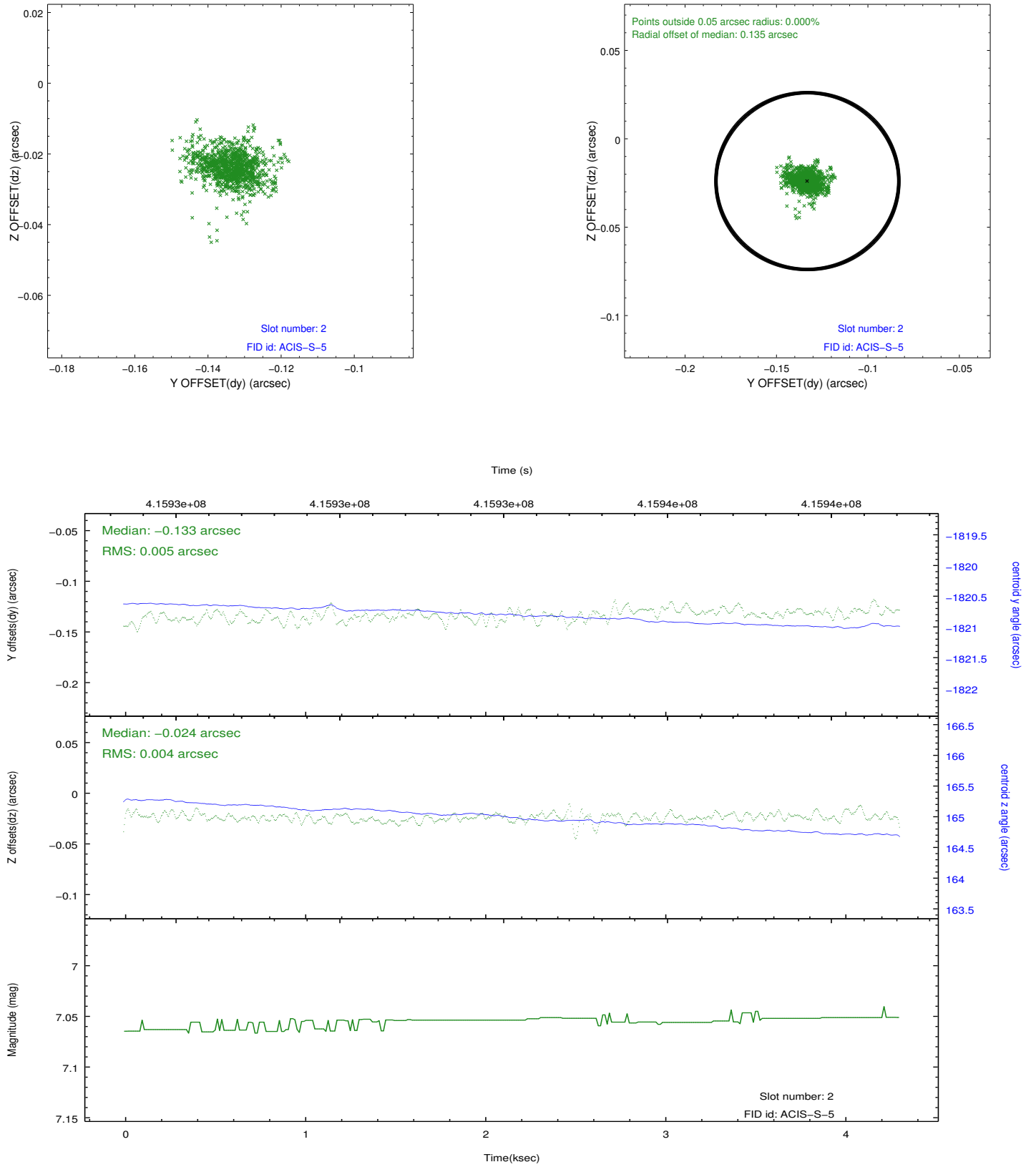
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.0263335334659

A.2 Comments

The data for this observation have been processed using the 'EDSER' sub-pixel event-repositioning algorithm of Li et al. (2004, ApJ, 610, 1204). Small-scale features should become sharper for sources near the aim point. The improvement will be less noticeable for off-axis sources where the size of the point-spread function is comparable to or larger than the size of an ACIS pixel. To take full advantage of the improvement, images should be binned on spatial scales smaller than the size of an ACIS pixel. Note that, at present, the point-spread function has not been calibrated for data to which the EDSER algorithm has been applied. If dither was disabled for the observation, then the algorithm can introduce artificial aliasing effects on spatial scales smaller than a pixel. If you would prefer to use no sub-pixel adjustment or to apply a coordinate randomization, then use `acis_process_events` to reprocess the data with the parameter `pix_adj=NONE` or `RANDOMIZE`, respectively.

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The source is approximate 25 arcsec northeast of the requested coordinates. The requested coordinates match SIMBAD and RSX coordinates. However, RASS coordinates appear to be more accurate. Further investigation into the source of the discrepancy was not made by the V&V scientist.